

Directions for Use

OptiBlox® Product Family

Tissue-mimicking Optical Phantoms:
XXXX_BLOX_Q-T_XXXX_XXXX



1. Scope

- a. This document is intended to inform the customer on the normal, day-to-day use and care of this product. Please don't hesitate to contact QUEL Imaging at feedback@quelimaging if there are questions not answered here.

2. Warnings

- a. The QUEL Imaging OptiBlox® Product Family is intended to enable research, characterization, and development of optical systems. Products **should not** be used as the basis for calibrating or adjusting optical systems (medical or otherwise), nor should they be used in any form of clinical care.
- b. Avoid prolonged skin contact.

3. Intended Use

- a. QUEL supports the following uses for these products:
 - i. As a reference for, or part of, optical systems.

4. Product Limitations

- a. General: The QUEL Imaging OptiBlox® Product Family is designed and produced for use in a research, evaluation, or demonstration environment – at no time should these products be used in direct clinical care.
- b. Optical Property Stability: The primary optical properties (e.g., absorption and reduced scattering coefficients) may shift over time, particularly when exposed to light or elevated temperatures.
 - i. Early data indicate that optical property shifts are generally under 10% over a one-year period.
 - ii. When stored according to section 5.a, we anticipate that properties may deviate less than 5%, pending the results of ongoing experiments.
 - iii. Shorter wavelengths (e.g. UV) can accelerate changes in optical properties.

- c. Dimensional Stability: While OptiBlox® are dimensionally stable under laboratory conditions, further studies are ongoing to fully quantify potential changes over longer periods or in various environmental conditions.
- d. Re-characterization Services: For critical applications, periodic re-characterization of OptiBlox® may be available. Please inquire at sales@quelimaging.com.

5. Storage

- a. OptiBlox® should be stored at room temperature and in complete darkness.
- b. QUEL Imaging recommends storing OptiBlox® in their original packaging - including the optical pouches - to prevent scratching of the optical surfaces.

6. Handling/Care

- a. OptiBlox® should be handled like any other optical component, with gloves and in a clean environment to avoid dirt, liquids, and oils on the optical surfaces.
- b. Cleaning
 - i. DO NOT USE SOLVENTS (such as alcohol or other chemicals) to clean OptiBlox® products. Doing so can damage polymer content and alter the optical properties and surfaces.
 - ii. Light Cleaning: For minor debris, use clean and dry air to gently dislodge loose particles. If needed, follow with a soft, lint-free cloth using minimal pressure.
 - iii. More Thorough Cleaning: For more persistent debris, use distilled water and a soft, lint-free cloth.
 - iv. Avoid Aggressive Mechanical Action: Excessive force or harsh cleaning tools can change the optical surfaces and potentially modify the optical properties.